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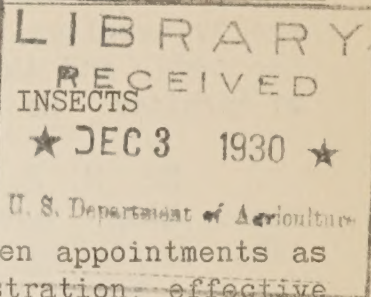
MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY
UNITED STATES DEPARTMENT OF AGRICULTURE

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TROPICAL, SUBTROPICAL, AND ORNAMENTAL PLANT INSECTS

A. C. Baker, in Charge



Messrs. Tai Hee Hong and Kam Hu Lau were given appointments as agents with the Plant Quarantine and Control Administration, effective October 8, for duty at Honolulu, where they will be engaged in research work on the Mediterranean fruit fly under the direction of this division.

The temporary appointment of J. R. Gross as Field Assistant in studies of bulb insects at Babylon, L. I., New York, was terminated October 2, and he has returned to Ohio State University to resume his collegiate work.

Dr. W. J. Hall, Entomologist with the British South Africa Citrus Estate, at Mazoe, S. Rhodesia, made a brief visit at the division headquarters October 3, prior to a trip he was about to make across the United States. He intends to visit the more important citrus districts in order to acquaint himself with various entomological problems in the United States.

C. P. Clausen, previously mentioned as having been in the Malay Peninsula and Dutch East Indies since the spring of 1929 collecting parasites of the citrus black fly, and as arriving in the United States on September 17, spent the interval from September 20 to October 19 in New York City rearing these parasites from material which he brought with him, and shipping them to Cuba. As an incident of this work he made one personal trip to Cuba, taking with him some of the more important parasites. He returned to Washington October 19, to complete some manuscripts dealing with earlier work on parasites in the Orient. Reports from Cuba indicate encouraging progress in the development of the natural enemies of the citrus black fly which were imported by Mr. Clausen. One, Eretmocerus serius Silv., which became established through a shipment sent by him last March, has increased rapidly in numbers at all points of liberation. Very heavy parasitization by this species has been observed in the Malayan region, its native habitat. A coccinellid, a species of Cryptognatha, is now being reared for distribution; it is predacious upon the eggs and early stages of the larvae of the citrus black fly. In shipping these parasites from the Orient a modified type of Wardian case has been used to permit of continuous breeding of both host and parasites, and while in transit they were carried on the open deck. As a result, the material remained in excellent condition during the six weeks in transit.

FOREST INSECTS

F. C. Craighead, in Charge

Dr. T. E. Snyder left Washington October 20 to consult with the officials of the city of Albany, Ga., regarding the prevention of damage by termites, with possible reference to modification of the building code, and the regulation of firms engaged in professional control of termites. He returned to Washington October 27.

Dr. H. J. MacAloney, in charge of the field laboratory at Amherst, Mass., spent three days in Washington in the latter part of October conferring with the chief of the division in regard to results of the past summer and plans for the coming winter.

The latter part of September was spent by J. C. Evenden, in charge of the field laboratory at Coeur d'Alene, Idaho, C. B. Morse, Assistant Regional Forester, R-4, and Supervisor Stoddard, of the Targhee National Forest, in checking over the results of the control operations in 1930 directed against an epidemic of the mountain pine beetle in the lodgepole pine forests thereabout. After his return from the Targhee, Teton, and Wyoming Forests, Mr. Evenden spent the first few days of October in helping the officers of the Madison National Forest institute a survey of a reported outbreak of the mountain pine beetle in the lodgepole pine stands of that forest, and plan for control work in 1931. The week of October 6 to 11 was spent by Mr. Evenden in Glacier National Park, where he assisted in the institution of a project for the control of an epidemic of the Douglas fir beetle (Dendroctonus pseudotsugae Hopk.) in the Douglas fir forests of that park.

A. L. Gibson, of the field laboratory at Coeur d'Alene, and three assistants, all of whom have been making an insect survey of the Beaverhead National Forest, spent several days in September assisting the officials of the Madison National Forest by surveying a certain portion of it.

Mr. DeLeon and Mr. Terrell, of the field laboratory at Coeur d'Alene, are also assisting on the survey of the Madison National Forest and are working in the vicinity of West Yellowstone, Mont.

Contributions from the Gipsy-Moth Laboratory

Harold A. Preston, of Hartford, Conn., some years ago a member of the force at the Gipsy-Moth Laboratory, visited the laboratory on October 13.

W. F. Sellers sailed from New York October 15, for Europe. He will be stationed at the temporary field laboratory at Budapest, Hungary, where he will be associated with P. B. Dowden in the study and the introduction into the New England States of European parasites of the gipsy, brown-tail, and satin moths.

On October 31 Messrs. Collins, Hood, Schaffner, and Smulyan, all of this laboratory, attended a conference of entomologists at Hartford, Conn. An interesting program had been arranged, including discussions of the more important insect problems of New England.

STORED-PRODUCT INSECTS

E. A. Back, in Charge

Wallace Colman, formerly of the Food, Drug and Insecticide Administration, was appointed Associate Entomologist July 21, 1930, and assigned to an investigation of household insects, with headquarters at Sligo, Md.

During the month of October an elevator in the vicinity of Norfolk, Va., fumigated over 1,500,000 bushels of wheat with the ethylene oxide-carbon dioxide mixture, as an assurance against trouble by insects. Doctors Back and Cotton visited this elevator on October 3 and 7.

From September 19 to October 14 over 31,000,000 pounds of tobacco were fumigated in the vicinity of Richmond, Va. The fumigation work was conducted under the supervision of W. D. Reed, assisted by Messrs. Cotton, Livingstone, Ellington, and Good, of this division.

Between October 8 and October 16 A. O. Larson visited the field-pea growing region about Pullman, Wash., and Moscow, Idaho. While in Moscow he gave an informal talk before a convention of local pea growers on the results of his studies during the past summer among the pea fields of the Willamette Valley, and, with Prof. C. C. Wakeland he visited a number of plantations to collect data on infestation of shattered seed.

At the request of the federally owned Inland Waterways Corporation, Dr. R. T. Cotton left Washington October 19 for Cairo, Ill., where he made a study of insect conditions in some wheat belonging to the Federal Farm Board. As a result of the drought, the wheat had been stored in barges stranded in the Mississippi since last July.

On October 22 Doctor Back was present at the fumigation of cars of wheat with the ethylene oxide-carbon dioxide mixture in Baltimore. J. H. Cox, of the Bureau of Agricultural Economics, H. D. Young, of the Insecticide Division of the Bureau of Chemistry and Soils, and P. W. Edwards, of the Chemical Engineering Division of that Bureau, were also present. The results were checked by Messrs. Cotton and Young on October 31.

In October Perez Simmons accepted an invitation to become a member of the Agricultural Committee of the Fresno Chamber of Commerce.

DECIDUOUS-FRUIT INSECTS

A. L. Quaintance, in Charge

Dr. Herbert Spencer, formerly with the Louisiana State Experiment Station, at Baton Rouge, has been appointed Entomologist. His headquarters will be at the field laboratory at Albany, Ga., where he will make an intensive study of the entire parasite complex relating to pecan insects. A special laboratory for the propagation of Trichogramma minutum will shortly be constructed at this station.

Dr. T. E. Snyder, of the division of forest insects, recently made a survey of the conditions regarding termites at Albany, Ga., at the urgent request of the Chamber of Commerce of that city. While in Albany he visited the pecan-insect laboratory there and conferred with G. F. Moznette concerning the local infestation by termites.

J. L. Gardiner, a graduate of the Maryland Agricultural College, has been appointed Junior Entomologist, and will assist C. B. Nickels in the investigation of pecan insects, with headquarters at Brownwood, Tex. C. C. Pinkney, Junior Entomologist at the field laboratory at Brownwood, has recently resigned to take up studies in landscape architecture at Harvard University.

Dr. B. A. Porter spent October 16 and 17 at Albany, Ga., discussing with Dr. Herbert Spencer and G. F. Moznette plans for the work on parasites of pecan insects which is being undertaken at the Albany laboratory. While on this trip Doctor Porter also visited the field laboratories at Cornelia, Ga., Fort Valley, Ga., and Harriman, Tenn.

M. A. Yothers, in charge of the Bureau's field laboratory at Wenatchee, Wash., visited the Dominion entomological laboratory at Vernon, B. C., in August. In company with Dr. Charles Brooks, C. P. Harley, and E. L. Reeves, all of the Bureau of Plant Industry, he investigated the work being done at that laboratory on the problem of the relation of the woolly apple aphid to perennial canker, the problem upon which Mr. Yothers is working at Wenatchee.

E. P. Venable and A. D. Herriott, of the Dominion entomological laboratory at Vernon, B. C., visited the Bureau's field laboratory at Wenatchee, Wash., early in October, and conferred with M. A. Yothers, in charge.

Contributions from the Japanese-Beetle Laboratory

On October 1 Dr. and Mrs. C. L. Marlatt visited the Japanese-Beetle Laboratory. Dr. Marlatt spent the day in reviewing the work of the several projects.

On October 16 Charles H. Warren, Dean of the Sheffield Scientific School, New Haven, Conn., visited the laboratory.

On October 21 G. G. Dustan, Junior Entomologist, Ontario Department of Agriculture, and C. W. Smith, Assistant Entomologist, Bellville, Ontario, visited the laboratory to look over the parasite work being conducted here. Paul M. Reed, of Bennington, Vt., also visited the laboratory.

In the latter part of October Prof. W. C. O'Kane, of Durham, N. H., spent a few hours looking over the laboratory.

TAXONOMY

Harold Morrison, in Charge

Dr. W. J. Holland, director emeritus of the Carnegie Museum, Pittsburgh, Pa., spent October 1 to 4 examining material in the National collections of Lepidoptera. He was particularly interested in certain types in the recently acquired Barnes Collection.

J. C. Hamlin, of the Bureau's alfalfa-weevil field laboratory, at Salt Lake City, Utah, was in the taxonomic unit October 7 to 9, in consultation with A. B. Gahan and R. A. Cushman concerning the hymenopterous parasites of this weevil.

Paul W. Oman, a graduate of the University of Kansas, joined the staff of the Bureau as Junior Entomologist on October 10. Mr. Oman will work on the classification and identification of Homoptera, and especially on the Cicadellidae.

Prof. Herbert Osborn, of the department of zoology and entomology, Ohio State University, at Columbus, spent October 24 and 25 in the National Museum examining types of certain Cicadellidae and Fulgoridae.

A. N. Caudell spent the last two weeks of October at the Museum of Comparative Zoology, Harvard University, where he worked with Nathan Banks, Curator of Insects in that museum, on various neuropteroid groups.

COTTON INSECTS

B. R. Coad, in Charge

The resignations of R. W. Bunn and J. H. Russell, Field Assistants, became effective on October 11 and 15, respectively.

TRUCK-CROP INSECTS

J. E. Graf, in Charge

W. H. White, in company with O. E. Gahm, visited Barberton, Ohio, on October 1, to inspect the mushroom plant of Yoder Brothers. Mr. White then went to Columbus, Ohio, where he visited the field laboratory of this division to observe the work there on the breeding of the parasites of the Mexican bean beetle, from stock collected in Mexico in the past season by B. J. Landis and C. C. Plummer. On October 16 he visited Chadbourn, N. C., to confer with W. A. Thomas and other workers at the field laboratory there regarding their past season's work and to discuss plans for the coming season, particularly on the problem of the seed-corn maggot.

From October 7 to October 10 M. C. Lane and R. S. Lehman, of Walla Walla, Wash., visited the Puget Sound region of Washington and the vicinity of Portland, Oreg., to investigate damage by wireworms to plantings of commercial bulbs.

N. F. Howard, Columbus, Ohio, visited Washington October 14 to confer with Bureau officials.

On October 17 K. B. McKinney, Tempe, Ariz., visited the field laboratory at Clarksville, Tenn., to review with A. C. Morgan, in charge, his past season's work on the tobacco stalk borer.

On October 23 K. L. Cockerham and O. T. Deen, Biloxi, Miss., visited the newly established State Experiment Station at Fairhope, Baldwin County, Ala., to make plans for some cooperative work on the control of the wireworm Heteroderes laurentii Guér.

On October 28, at the request of the State Plant Board of Mississippi, a meeting of all the workers of that organization was held at the Bureau's field laboratory at Biloxi, to prepare recommendations for certain changes in the State regulations concerning the sweet-potato weevil. Those present were Clay Lyle, General Inspector, Mississippi A. and M. College, and F. P. Amsler, Gulfport, R. P. Colmer, Moss Point, Henry Deitrich, Lucedale, H. Gladney, Poplarville, J. P. Kislanko, Wiggins, and J. E. Lee, Lucedale.

O. E. Gahm, who has been engaged in investigations of mushroom pests, resigned October 20 to accept a position with the Chester County Mushroom Laboratory at West Chester, Pa.

Probationary appointments have been given to H. A. Waters, Junior Entomologist, for duty at Twin Falls, Idaho, and to R. S. Lehman, Assistant Entomologist, at Walla Walla, Wash.

E. H. Frederic, Gulfport, Miss., and D. Stoner, Sanford, Fla., have been appointed temporary Field Assistants.

BEE CULTURE

Jas. I. Hambleton, in Charge

George H. Rea, of Reynoldsville, Pa., formerly Extension Specialist of the Bee Culture Laboratory, and also of Cornell University, visited the laboratory on October 2 and 3.

M. Hajdak, temporarily employed as Field Assistant at the Bee Culture Laboratory, resigned on October 13 to take up graduate work at the University of Wisconsin, at Madison.

Prof. H. F. Wilson, Custodian of the C. C. Miller Memorial Library, at Madison, Wis., very generously gave to the library of the Bee Culture Laboratory the title-page and index for Volume 9 (1873) of the American Bee Journal, one of the rare volumes of this journal. The acquisition of this material completes the file of the American Bee Journal in the library at the Bee Culture Laboratory.

J. E. Eckert, Associate Apiculturist, at the Intermountain Bee Culture Field Laboratory, Laramie, Wyo., has been granted leave of absence to enable him to take up graduate work at the Ohio State University, at Columbus.

In October E. L. Sechrist, of the Bee Culture Laboratory, and R. S. Washburn, of the Bureau of Agricultural Economics, made their last trip of the season, through New York State, closing up the work of the cooperating honey producers who are keeping records in the study of apiary management. Mr. Washburn is completing the same work in the other States of the clover region, continuing the cooperative work formerly done by R. S. Kifer, who is taking graduate work at Columbia University.

CEREAL AND FORAGE INSECTS

W. H. Larrimer, in Charge

On October 9, at the request of the Oregon State Board of Horticulture, Geo. I. Reeves, of the field laboratory at Salt Lake City, attended a hearing on alfalfa weevil quarantines at Portland, Oreg.

Dr. W. H. Larrimer, accompanied by H. S. McCrory, of the Bureau of Public Roads, attended the Corn Borer Field Day on October 15 at the Corn Borer Demonstration Farm, Berkley, Mass.

Visitors at the Washington office of this division in October included Prof. Herbert Osborn, of the Ohio State University, Dr. W. J. Hall, Entomologist for the British African Company of Rhodesia, South Africa, and Dr. J. C. Hamlin, of the field laboratory at Salt Lake City.

Dr. F. W. Poos and Dr. F. F. Smith, of the field laboratory at Rosslyn, Va., spent October 31 at Columbus, Ohio, to examine type material of Cicadellidae and to confer with specialists.

LIBRARY

Mabel Colcord, Librarian

NEW BOOKS

Bodenheimer, F. S.

. . . Die Schädlingsfauna Palestinas, unter besonderer Berücksichtigung der Grossschmetterlinge des Mittelmeergebietes. 438 p., illus., map. Berlin, Paul Parey, 1930. (Monographien zur angewandten Entomologie Nr. 10.) Literatur, p. 408-410.

Bronn, H. G.

Klassen und Ordnungen des Tier-Reichs . . . Bd. 5, Gliederfüssler; Arthropoda. 11. Abt. Myriapoda. 2. Buch: Diplopoda. Bearb. K. W. Verhoeff. Lfg. 10, p. 1523-1674, illus. Leipzig, Akademische Verlagsgesellschaft m. b. H., 1930.

Caradja, Aristides von.

Die Microlepidopteren Rumäniens von Aristides von Caradja. p. [111]-168, Bucarest, Imprimerie de l'État, 1901. (From Bulletin de la Société des Sciences de Bucarest--Roumaine . . . An. X, No. 1, sl. 2.)

Carter, H. J.

A checklist of the Australian Buprestidae. Reprint from the Australian Zoologist, v. 6, pt. 9, p. 265-393, pl. XXXI-XXXIII, Aug. 13, 1929.

Carter, H. J.

A checklist of the Australian Tenebrionidae. Reprint from the Australian Zoologist, v. 4, pt. 3, 117-163, pl. XVI-XVII, February 22, 1926.

Entomologische Ergebnisse der Deutsch-Russischen Alai-Pamir-Expedition 1928 (1). 1. Allgemeines. W. F. Reinig. 2. Dermaptera und Orthoptera. Willy Ramme. 3. Hymenoptera I (Sphecidae, Vespidae, Scoliidae, Mutillidae, Chrysididae, Ichneumonidae, Evaniidae). Hans Bischoff. 4. Hymenoptera II (Psammocharidae). H. Haupt. 5. Hymenoptera III (Formicidae). H. Stitz. 6. Coleoptera I (Staphylinidae). M. Bernhauer.

Garcia-Revera, Andres.

Lecciones de parasitologia y enfermedades tropicales. 2 v., illus. Habana, Cultural, S. A., 1930.

Handbuch der Zoologie . . . B. 4. Progoneata. Chilopoda. Insecta. Bearb. Dr. Carl Attems. Lfg. 8 (p. 801-892). Berlin, Leipzig, Walter de Gruyter & Co., June 19, 1930.

Moutia, Andre.

Flies injurious to domestic animals in Mauritius. 8 p., 2 pl. Port Louis, printed by B. G. Bumstead, Government Printer, 1930. (Mauritius Dept. Agr. Scientific Series. Bul. 15.)

Pinto, C. F.

. . . Arthropodes parasitos e transmissores de doenças . . . 2 v., illus. Rio de Janeiro, Pimenta de Mellasc., 1930. (Bibliotheca scientifica brasileira, dirigida pelo Prof. dr. Pontes de Miranda.) [Added t. p.: Tratado de parasitologia, vol. IV.]

Rau, Phil, and Rau, Nellie.

The sex attraction and rhythmic periodicity in giant saturniid moths. Trans. Acad. Sci. St. Louis, v. 26, No. 2, p. 81-221, Aug. 15, 1929.

Ruusscher, Melchior de.

Natuerlyke historie van de couchenille, beweezen met authentique documenten. Histoire naturelle de la cochenille, justifiée par des documents authentiques. 175 p., illus. Amsterdam, H. Uytwerf, 1729. [Dutch and French on opposite pages.]

Saidla, L. E., and Gibbs, W. E.

Science and the scientific mind. 508 p. New York, McGraw-Hill Book Company, Inc., 1930.

Shinji, Orihay.

Studies on the germ cells of aphids with especial reference to the evolucional significance of the chromosomes. 121 p., 15 pl., Morioka, Japan, Dec. 1927. (Bul. Morioka Imp. Coll. Agr. & For. Morioka, Japan, No. XI.) Literature cited, p. 112-115.

Smith, Leslie.

Macrotileya oecanthi Ashm. A hymenopterous egg parasite of tree crickets. 165-172 p., illus. Berkeley, Calif., Univ. of Calif. Press, 1930. (Univ. of California Publications in Entomology, v. 5, No. 8, p. 165-172, May 22, 1930.)

Die Tierwelt Deutschlands . . . 19. teil. Eintagsfliegen oder Ephemeroptera, von Dr. Eduard Schoenemund (Gelsenkirchen). 106 p., illus., Jena, Fischer, 1930.

Tokunaga, Masaaki.

The morphological and biological studies on a new marine crane-fly. Limonia (Dicranomyia) monostromia from Japan . . . 93 p., 17 pl. Kyoto, Japan, Pub. by the Kyoto Univ., Apr. 1930. (Mem. Coll. Agr. Kyoto Imp. Univ. No. 10.) Bibliography; p. 78-87.

Wagner, Christof.

Lehrbuch des Forstschutzes. 357 p., illus. Berlin, Paul Parey, 1930. (Die schädlichen Insekten, p. 236-317.)

BUSINESS ADMINISTRATION

QUESTIONNAIRES, CIRCULAR LETTERS, ETC.

In order to provide for better coordination, questionnaires, circular letters, etc., to various groups, such as farmers, bankers, manufacturers, merchants, public officials, educational institutions, etc., requesting them to furnish information of various sorts desired by the department, hereafter shall be submitted for the approval of the Secretary prior to circulation. Such circulars should be sent out, of course, only where actually necessary. Requests for approval should state the necessity for and purpose of the inquiry, should indicate how many are to be circularized and what groups, and should show that the information is not otherwise obtainable. A copy of the letter or questionnaire proposed to be circularized also should be enclosed.

GROUP INSURANCE FOR DEPARTMENT MOTOR VEHICLES WITH RALPH W. LEE AND COMPANY

Ralph W. Lee and Company advise that their group insurance rates for the year beginning November 1, 1930, will be \$8.00 for personal injury damage up to \$5,000 for one and \$10,000 for two or more persons and for property damage up to \$5,000. For personal damage up to \$10,000 for one person and \$20,000 for two or more persons and property damage up to \$5,000 the charge is \$9.60.

Recapitulating what was stated in a former circular on this subject:

The insurance is purely personal. No particular car is covered. The protection runs with operation of Government-owned cars or cars assigned to Government use. It does not extend to privately owned cars operated on a mileage basis.

The group policy terminates November 1, 1931, in all cases, and there is no reduction in premium to those who buy insurance after November 1, 1930.

It is important to note that hereafter checks in payment of premium should be sent directly to Ralph W. Lee and Company, 1508 L Street, N. W., Washington, D. C., and not, as hitherto, to the Chief Clerk of the Department. With check should be letter of advice giving remitter's permanent address, with name either typed or so printed as to be completely legible. The master policy will be retained in the Department as hitherto. Receipts for remittances will be forwarded to employees by Lee and Company.

Ralph W. Lee and Company state that they are prepared also to insure Government cars to cover official operation by any employee. Rates may be obtained upon application direct to the company. With inquiries there should be furnished location of car, make, model number and year, and statement whether touring or sedan.

TOLL FERRY, STORAGE, AND TOWAGE CHARGES

Memorandum 599 (September 9, 1930). - In view of the closing proviso in the section entitled "Mileage rates for motor vehicles," in the agricultural appropriation act for 1931, viz, "Provided further, That the Secretary of Agriculture may authorize the payment of toll and ferry charges, storage, and towage for such motor cycles and automobiles, in addition to the mileage allowance," all employees of the department authorized to operate their personally owned automobiles on the mileage basis will, in addition to such mileage, be allowed charges for tolls and ferriage, storage, and towage incurred in connection with the authorized use for official travel of such personally owned automobiles or motor cycles.